

NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL

_S

Ps

NP

NP

\$G

\$O

NP

PA

_L

```

NN      NN      MM      MM      LL      DDDDDDDD      IIIIII      SSSSSSSS      CCCCCCCC
NN      NN      MM      MM      LL      DDDDDDDD      IIIIII      SSSSSSSS      CCCCCCCC
NN      NN      MMMM     MMMM     LL      DD          DD      II      SS      CC
NN      NN      MMMM     MMMM     LL      DD          DD      II      SS      CC
NNNN     NN      MM      MM      LL      DD          DD      II      SS      CC
NNNN     NN      MM      MM      LL      DD          DD      II      SS      CC
NN      NN      NN      MM      LL      DD          DD      II      SS      CC
NN      NN      NN      MM      LL      DD          DD      II      SS      CC
NN      NNNN     MM      MM      LL      DD          DD      II      SS      CC
NN      NNNN     MM      MM      LL      DD          DD      II      SS      CC
NN      NN      MM      MM      LL      DD          DD      II      SS      CC
NN      NN      MM      MM      LL      DD          DD      II      SS      CC
NN      NN      MM      MM      LL      DD          DD      II      SS      CC
NN      NN      MM      MM      LLLLLLLLLL DDDDDDDD      IIIIII      SSSSSSSS      CCCCCCCC
NN      NN      MM      MM      LLLLLLLLLL DDDDDDDD      IIIIII      SSSSSSSS      CCCCCCCC

```



```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL IIIIII      SSSSSSSS
LLLLLLLLLLLL IIIIII      SSSSSSSS

```



```
0001 0 %TITLE 'NML Disconnect parameter module'
0002 0 MODULE NML$DISCONNECT (
0003 0     LANGUAGE (BLISS32),
0004 0     ADDRESSING_MODE (NONEXTERNAL=GENERAL),
0005 0     ADDRESSING_MODE (EXTERNAL=GENERAL),
0006 0     IDENT = 'V04-000'
0007 0 ) =
0008 1 BEGIN
0009 1
0010 1 *****
0011 1 *
0012 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0028 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0029 1 *
0030 1 *****
0031 1
0032 1
0033 1
0034 1 ++
0035 1 FACILITY: DECnet-VAX V2.0 Network Management Listener
0036 1
0037 1 ABSTRACT:
0038 1
0039 1     These routines process all NCP DISCONNECT commands.
0040 1
0041 1 ENVIRONMENT: VAX/VMS Operating System
0042 1
0043 1 AUTHOR: Kathy Perko
0044 1
0045 1 CREATION DATE: 6-Sept-1981
0046 1
0047 1 MODIFIED BY:
0048 1
0049 1     V03-002 MKP0004      Kathy Perko      1-March-1983
0050 1     Fix DISC LINKS so it returns an EOF message if no
0051 1     links were disconnected.
0052 1
0053 1     V03-001 MKP0003      Kathy Perko      7-May-1982
0054 1     Add double search key to DISCONNECT KNOWN LINKS WITH
0055 1     NODE <node name>.
0056 1
0057 1     V02-003 MKP0002      Kathy Perko      25-Oct-1981
```

:	58	0058	1	:	
:	59	0059	1	:	
:	60	0060	1	:	
:	61	0061	1	:	
:	62	0062	1	:	
:	63	0063	1	:	
:	64	0064	1	:	
:	65	0065	1	:	
:	66	0066	1	:	--
:	67	0067	1	:	

V02-002 MKP0001 Kathy Perko 18-Sept-1981
Change single link disconnect so no node name
is required in the NICE command.
Fix NML\$DISCKNOWN so that if a link goes away
between the read and the disconnect, no error
is returned to NCP.

NML\$DISCONNECT
V04-000

NML Disconnect parameter module
Declarations

C 8
16-Sep-1984 00:14:10
14-Sep-1984 12:50:08

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1 Page 3 (2)

```

: 69      0068 1 %SBTTL 'Declarations'
: 70      0069 1
: 71      0070 1
: 72      0071 1  TABLE OF CONTENTS:
: 73      0072 1
: 74      0073 1
: 75      0074 1  FORWARD ROUTINE
: 76      0075 1      NML$DISCKNOWN      : NOVALUE,
: 77      0076 1      NML GETLINKLIST,
: 78      0077 1      NML$DISCONNECT     : NOVALUE;
: 79      0078 1
: 80      0079 1
: 81      0080 1  INCLUDE FILES:
: 82      0081 1
: 83      0082 1
: 84      0083 1  LIBRARY 'LIB$:NMLLIB.L32';
: 85      0084 1  LIBRARY 'SHRLIB$:NMLIBRY.L32';
: 86      0085 1  LIBRARY 'SHRLIB$:NET.L32';
: 87      0086 1  LIBRARY 'SYS$LIBRARY:STARLET.L32';
: 88      0087 1
: 89      0088 1
: 90      0089 1  EXTERNAL REFERENCES:
: 91      0090 1
: 92      0091 1
: 93      0092 1  $NML_EXTDEF;
: 94      0093 1
: 95      0094 1  EXTERNAL ROUTINE
: 96      0095 1      NML$BLDP2,
: 97      0096 1      NML$BLD REPLY,
: 98      0097 1      NML$GETEXEADR,
: 99      0098 1      NML$NETQIO,
: 100     0099 1      NML$SEND,
: 101     0100 1      NML$ERROR_1;
: 102     0101 1
```

NML\$DISCONNECT
V04-000

NML Disconnect parameter module
Declarations

D 8
16-Sep-1984 00:14:10
14-Sep-1984 12:50:08

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1 Page 4 (3)

```
: 104      0102 1
: 105      0103 1 OWN
: 106      0104 1
: 107      0105 1
: 108      0106 1
: 109      0107 1 BIND
: 110      0108 1
: 111      0109 1
: 112      0110 1
```

NML\$T_P2BUFFER : VECTOR [NML\$K_P2BUFLN, BYTE],
NML\$AB_ENTITY_BUF : BBLOCK [20];

NML\$Q_P2BFDSC = UPLIT (NML\$K_P2BUFLN, NML\$T_P2BUFFER) : DESCRIPTOR;


```
114 0111 1 %SBTTL 'NML$DISCKNOWN Disconnect known links'
115 0112 1 GLOBAL ROUTINE NML$DISCKNOWN (ENTITY, NODE_PST, NODE_LEN, NODE_ADR) : NOVALUE =
116 0113 1
117 0114 1 !++
118 0115 1 FUNCTIONAL DESCRIPTION:
119 0116 1
120 0117 1 This routine disconnects all links with all nodes or all links
121 0118 1 with a specified node.
122 0119 1
123 0120 1 FORMAT PARAMETERS:
124 0121 1 ENTITY Internal NML entity code (NML$C_LINKS)
125 0122 1 NODE_PST Parameter Semantic Table (PST) entry of node
126 0123 1 (name or address) from which to disconnect links.
127 0124 1 NODE_LEN Length of disconnect node ID.
128 0125 1 NODE_ADR Address of disconnect node ID.
129 0126 1 --
130 0127 1
131 0128 2 BEGIN
132 0129 2
133 0130 2 LOCAL
134 0131 2 NFB : REF BBLOCK,
135 0132 2 P2DSC : DESCRIPTOR,
136 0133 2 STATUS,
137 0134 2 PTR,
138 0135 2 STRIFLG,
139 0136 2 LINK_CNT, ! Count of links returned by NETACP in
140 0137 2 ! P4 buffer.
141 0138 2 STRDSC : DESCRIPTOR, ! Descriptor of link for NICE response msg.
142 0139 2 MSGSIZE; ! Length of response message.
143 0140 2
144 0141 2 !
145 0142 2 NFB to disconnect a link.
146 0143 2
147 P 0144 2 $NFBDS (DISC_LINK NFBDS, DELETE, , LLI
148 P 0145 2 ,LCN, ! Search key 1 = Link number, oper1 = eql
149 P 0146 2 ,NFB$C_WILDCARD, ! Search key 2 = wildcard, oper2 = neq
150 0147 2 );
151 0148 2
152 0149 2 OWN
153 0150 2
154 0151 2 NMLPID,
155 0152 2 GETLIST : BBLOCK [12] ! $GETJPI list to get NML's PID.
156 0153 2 INITIAL (WORD (4, ! Buffer length
157 0154 2 JPI$PID), ! Request PID
158 0155 2 LONG (NMLPID, ! Address to receive PID
159 0156 2 0)), ! Don't need length.
160 0157 2
161 0158 2 IOSB : $IOSB;
162 0159 2
163 0160 2 ! Get PID for NML. If NML is not running in the local node, it is
164 0161 2 talking to NCP via a logical link. Therefore, don't disconnect
165 0162 2 that link. Use the PID to tell which link is NML's link to NCP.
166 P 0163 2 STATUS = $GETJPI (ITMLST = GETLIST,
167 0164 2 IOSB = IOSB);
168 0165 2 IF NOT .STATUS OR
169 0166 2 NOT .IOSB [IOS$W_STATUS] THEN
170 0167 2 ! Signal an error.
```

```
171 0168 2      NML$ERROR_1 (NML$C_STS_MPR);
172 0169 2
173 0170 2
174 0171 2      Set up the link ID descriptor for the NICE response message.
175 0172 2      The link ID consists of a byte of 0 followed by a word of the
176 0173 2      link number.
177 0174 2
178 0175 2      STRDSC [DSC$W_LENGTH] = 3;
179 0176 2      STRDSC [DSC$A_POINTER] = NML$AB_ENTITY_BUF;
180 0177 2      NML$AB_ENTITY_BUF<0,8> = 0;
181 0178 2      STRTFLG = FALSE;
182 0179 2
183 0180 2      Get a list of links to disconnect from NETACP.
184 0181 2
185 0182 2      WHILE NML_GETLINKLIST (.STRTFLG, NML$GQ_QIOBFDSC, LINK CNT, .NMLPID,
186 0183 2          .NODE_PST, .NODE_LEN, .NODE_ADR) DO
187 0184 2          BEGIN
188 0185 3          STRTFLG = TRUE;
189 0186 3          PTR = .NML$GQ_QIOBFDSC [DSC$A_POINTER];
190 0187 3          WHILE (LINK CNT = .LINK_CNT - 1) GEQ 0 DO
191 0188 4              BEGIN
192 0189 4                  NML$BLDP2 (0, ..PTR, -1, 0, NML$Q_P2BFDSC, P2DSC);
193 0190 4
194 0191 4                  Tell NETACP to disconnect the link.
195 0192 4
196 0193 4                  STATUS = NML$NETQIO ( DISC_LINK_NFBFDC, P2DSC, 0, 0);
197 0194 4
198 0195 4                  Build response message for disconnected link.
199 0196 4
200 0197 4                  IF .STATUS THEN
201 0198 5                      BEGIN
202 0199 5                          NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
203 0200 5                          NML$AB_MSGBLOCK [MSB$B_CODE] = NML$ STS_SUC;
204 0201 5                          NML$GL_PRS_FLGS [NML$V_PRS_ENTITY_FOUND] = TRUE;
205 0202 4                      END;
206 0203 4                  CH$MOVE (2, .PTR, .STRDSC [DSC$A_POINTER] + 1);
207 0204 4
208 0205 4                  If the link went away before it could be disconnected
209 0206 4                  don't build a response message for it.
210 0207 4
211 0208 4                  IF .STATUS NEQ NML$_STS_CMP THEN
212 0209 5                      BEGIN
213 0210 5                          NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
214 0211 5                          NML$AB_MSGBLOCK [MSB$A_ENTITY] = STRDSC;
215 0212 5                          NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
216 0213 5                          NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
217 0214 4                      END;
218 0215 4
219 0216 4                  Advance pointer to next link in the buffer.
220 0217 4
221 0218 4                  PTR = .PTR + 4;
222 0219 3                  END;
223 0220 2          END;
224 0221 2
225 0222 2      If no links were disconnected, return an error message.
226 0223 2
227 0224 2      IF NOT .NML$GL_PRS_FLGS [NML$V_PRS_ENTITY_FOUND] THEN
```


NML\$DISCONNECT
V04-000

NML Disconnect parameter module
NML\$DISCKNOWN Disconnect known links

G 8
16-Sep-1984 00:14:10
14-Sep-1984 12:50:08

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1

Page 7
(4)

```

: 228      0225 3 BEGIN
: 229      0226 NML$AB_MSGBLOCK [MSB$S_FLAGS] = MSB$M_DET_FLD;      ! Detail flag
: 230      0227 NML$AB_MSGBLOCK [MSB$B_CODE] = NMASC_STS_CMP;      ! Missing component status
: 231      0228 NML$AB_MSGBLOCK [MSB$W_DETAIL] = NMASC_SENT_LNK;    ! Links
: 232      0229 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
: 233      0230 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
: 234      0231 END;
: 235      0232 1 END;

```

! of NML\$DISC_KNOWN_LINKS

.TITLE NML\$DISCONNECT NML Disconnect parameter module
.IDENT \V04-000\

.PSECT \$PLITS\$,NOWRT,NOEXE,2

```

00000068 00000 P.AAA: .LONG 104
00000000 00004 .ADDRESS NML$T_P2BUFFER
00000014 00008 P.AAB: .LONG 20
00000000 0000C .ADDRESS U.1

```

.PSECT \$OWNS\$,NOEXE,2

```

00000 NML$T_P2BUFFER:
      .BLKB 104
00068 NML$AB_ENTITY_BUF:
      .BLKB 20
21 0007C : NFB
      U.1: .BYTE 33
00 0007D .BYTE 0
08 0007E .BYTE 8
00 0007F .BYTE 0
08010012 00080 .LONG 134283282
00000001 00084 .LONG 1
00 00088 .BYTE 0
00 00089 .BYTE 0
0000 0008A .WORD 0
00000000 0008C .LONG 0
00090 NMLPID: .BLKB 4
0319 0004 00094 GETLIST: .WORD 4, 793
00000000 00098 .ADDRESS NMLPID
00000000 0009C .LONG 0
000A0 IOSB: .BLKB 8

```

NML\$Q_P2BFDSC=
U.2=

```

      P.AAA
      P.AAB
      .EXTRN NML$GB_EVTSRCTYP
      .EXTRN NML$GQ_EVTSRCDS
      .EXTRN NML$GW_EVTCLASS
      .EXTRN NML$GB_EVTMSKTYP
      .EXTRN NML$GQ_EVTMSKDS
      .EXTRN NML$GW_EVTSNKADR
      .EXTRN NML$GW_ACP_CHAN
      .EXTRN NML$GL_LOGMASK, NML$GQ_ENTSTRDSC
      .EXTRN NML$AB_QIOBUFFER
      .EXTRN NML$GQ_QIOBFDSC
      .EXTRN NML$AB_EXEBUFFER
      .EXTRN NML$GL_EXEDATPTR

```

```
.EXTRN NML$GQ_EXEDATDSC
.EXTRN NML$GQ_EXEBFDSC
.EXTRN NML$AB_RCVBUFFER
.EXTRN NML$GQ_RCVBFDSC
.EXTRN NML$AB_SNDBUFFER
.EXTRN NML$GQ_SNDBFDSC
.EXTRN NML$GL_RCVDATLEN
.EXTRN NML$AB_CPTABLE, NML$AB_MSGBLOCK
.EXTRN NML$AB_ENTITY_ID
.EXTRN NML$AB_QUALIFIER_ID
.EXTRN NML$AB_ENTITYDATA
.EXTRN NML$AB_NML_NMV, NML$AB_PRMSEM
.EXTRN NML$AB_RECBUF, NML$AL_ENTINF TAB
.EXTRN NML$AL_PERMINF TAB
.EXTRN NML$AW_PRM_DES, NML$GB_CMD_VER
.EXTRN NML$GB_ENTITY_CODE
.EXTRN NML$GB_ENTITY_FORMAT
.EXTRN NML$GL_QUALIFIER_PST
.EXTRN NML$GB_QUALIFIER_FORMAT
.EXTRN NML$GB_FUNCTION
.EXTRN NML$GB_INFO, NML$GB_OPTIONS
.EXTRN NML$GL_PRCODE, NML$GL_PRS_FLGS
.EXTRN NML$GL_NML_ENTITY
.EXTRN NML$GQ_NETNAMDSC
.EXTRN NML$GQ_RECBFDSC
.EXTRN NML$GW_PRMDESCNT
.EXTRN NML$BLDP2, NML$BLD_REPLY
.EXTRN NML$GETEXEADR, NML$NETQIO
.EXTRN NML$SEND, NML$ERROR_1
.EXTRN SYSSGETJPI

.PSECT $CODE$,NOWRT,2

.ENTRY NML$DISCKNOWN, Save R2,R3,R4,R5,R6,R7,R8,- ; 0112
      R9,R10,R11
      MOVAB NML$SEND, R11
      MOVAB NML$AB_SNDBUFFER, R10
      MOVAB NML$BLD_REPLY, R9
      MOVAB NML$GL_PRS_FLGS, R8
      IOB, R7
      MOVAB NML$AB_MSGBLOCK, R6
      SUBL2 #24, SP
      CLRQ -(SP) ; 0164
      PUSHL R7
      PUSHAB GETLIST
      CLRQ -(SP)
      CLRL -(SP)
      CALLS #7, SYSSGETJPI
      MOVL R0, STATUS
      BLBC STATUS, 1$ ; 0165
      BLBS IOB, 2$ ; 0166
      MNEGL #5, -(SP) ; 0168
      CALLS #1, NML$ERROR_1
      MOVW #3, STRDSC ; 0175
      MOVAB NML$AB_ENTITY_BUF, STRDSC+4 ; 0176
      CLRB NML$AB_ENTITY_BUF ; 0177
      CLRL STRFLG ; 0178

      OFFC 00000
      5B 00000000G 00 9E 00002
      5A 00000000G 00 9E 00009
      59 00000000G 00 9E 00010
      58 00000000G 00 9E 00017
      57 00000000G 00 9E 0001E
      56 00000000G 00 9E 00025
      5E 18 C2 0002C
      7E 7C 0002F
      57 DD 00031
      F4 A7 9F 00033
      7E 7C 00036
      7E D4 00038
      00000000G 00 07 FB 0003A
      55 50 D0 00041
      03 55 E9 00044
      0A 67 E8 00047
      7E 05 CE 0004A 1$:
      00000000G 00 01 FB 0004D 2$:
      08 AE 03 B0 00054
      0C AE C8 A7 9E 00058
      C8 A7 94 0005D
      54 D4 00060
```


52	OC	AE	DO	00062	MOVL	STRDSC+4, R2	0203
7E	OC	AC	7D	00066	MOVQ	NODE_LEN, -(SP)	0183
	08	AC	DD	0006A	PUSHL	NODE_PST	
	F0	A7	DD	0006D	PUSHL	NMLPTD	0182
	10	AE	9F	00070	PUSHAB	LINK_CNT	
00000000G		00	9F	00073	PUSHAB	NML\$GQ_QIOBFDSC	
		54	DD	00079	PUSHL	STRTFLG	
00000000V	00	07	FB	0007B	CALLS	#7, NML_GETLINKLIST	
	72	50	E9	00082	BLBC	R0, 7\$	
	54	01	DO	00085	MOVL	#1, STRTFLG	0185
53	00000000G	00	DO	00088	MOVL	NML\$GQ_QIOBFDSC+4, PTR	0186
		6E	D7	0008F	DECL	LINK_CNT	0187
		D3	19	00091	BLSS	3\$	
	10	AE	9F	00093	PUSHAB	P2DSC	0189
000000000		00	9F	00096	PUSHAB	NML\$Q_P2BFDSC	
		7E	D4	0009C	CLRL	-(SP)	
7E		01	CE	0009E	MNEGL	#1, -(SP)	
		63	DD	000A1	PUSHL	(PTR)	
00000000G	00	7E	D4	000A3	CLRL	-(SP)	
		06	FB	000A5	CALLS	#6, NML\$BLDP2	
		7E	7C	000AC	CLRQ	-(SP)	0193
	18	AE	9F	000AE	PUSHAB	P2DSC	
00000000G		00	9F	000B1	PUSHAB	U.2	
		04	FB	000B7	CALLS	#4, NML\$NETQIO	
	55	50	DO	000BE	MOVL	RQ, STATUS	
	09	55	E9	000C1	BLBC	STATUS, 5\$	0197
		66	D4	000C4	CLRL	NML\$AB_MSGBLOCK	0199
04	A6	01	90	000C6	MOVB	#1, NML\$AB_MSGBLOCK+4	0200
	68	08	88	000CA	BISB2	#8, NML\$GL_PRS_FLGS	0201
01	A2	63	BO	000CD	MOVW	(PTR), 1(R2)	0203
FFFFFFF0	8F	55	D1	000D1	CMPL	STATUS, #-16	0208
		18	13	000D8	BEQL	6\$	
	66	10	88	000DA	BISB2	#16, NML\$AB_MSGBLOCK	0210
14	A6	08	AE	9E	MOVAB	STRDSC, NML\$AB_MSGBLOCK+20	0211
		04	AE	9F	PUSHAB	MSGSIZE	0212
		56	DD	000E5	PUSHL	R6	
	69	02	FB	000E7	CALLS	#2, NML\$BLD_REPLY	
		04	AE	DD	PUSHL	MSGSIZE	0213
		5A	DD	000ED	PUSHL	R10	
	6B	02	FB	000EF	CALLS	#2, NML\$SEND	
	53	04	CO	000F2	ADDL2	#4, PTR	0218
		98	11	000F5	BRB	4\$	0187
1B	68	03	E0	000F7	BBS	#3, NML\$GL_PRS_FLGS, 8\$	0224
	66	02	DO	000FB	MOVL	#2, NML\$AB_MSGBLOCK	0226
	04	08	8E	000FE	MNEGB	#8, NML\$AB_MSGBLOCK+4	0227
08	A6	07	BO	00102	MOVW	#7, NML\$AB_MSGBLOCK+8	0228
		04	AE	9F	PUSHAB	MSGSIZE	0229
		56	DD	00109	PUSHL	R6	
	69	02	FB	0010B	CALLS	#2, NML\$BLD_REPLY	
		04	AE	DD	PUSHL	MSGSIZE	0230
		5A	DD	00111	PUSHL	R10	
	6B	02	FB	00113	CALLS	#2, NML\$SEND	
		04	00116	8\$:	RET		0232

; Routine Size: 279 bytes, Routine Base: \$CODE\$ + 0000

```

237 0233 1 %SBTTL 'NML_GETLINKLIST Get a list of links to disconnect'
238 0234 1 ROUTINE NML_GETLINKLIST ( GET_STARTED, LISDSC, ENTRY_COUNT, NMLPID,
239 0235 1 NODE_PST, NODE_LEN, NODE_ADR) =
240 0236 1
241 0237 1 ++
242 0238 1 FUNCTIONAL DESCRIPTION:
243 0239 1 This routine gets a bufferfull of currently active logical links
244 0240 1 from NETACP. This bufferfull will be either known links or known
245 0241 1 links on a specified node. The routine can be iteratively called
246 0242 1 to get more bufferfulls, until all links have been processed.
247 0243 1
248 0244 1 INPUTS:
249 0245 1 GET_STARTED If false, this is the first call, so build
250 0246 1 a new P2 buffer and start at the beginning
251 0247 1 of the ACPs database.
252 0248 1 LISDSC Address at which to return descriptor address
253 0249 1 of the P4 buffer (which is full of links and
254 0250 1 their PIDs.
255 0251 1 ENTRY_COUNT Count of links in the P4 buffer.
256 0252 1 NMLPID PID of NML process. This link must be disconnected
257 0253 1 last.
258 0254 1 NODE_PST Parameter Semantic Table (PST) entry of node
259 0255 1 (name or address) from which to disconnect links.
260 0256 1 NODE_LEN Length of disconnect node ID.
261 0257 1 NODE_ADR Address of disconnect node ID.
262 0258 1
263 0259 1 IMPLICIT INPUTS:
264 0260 1 NML$GL_PRS_FLGS [NML$V_PRS_QUALIFIER] Set if links on a specified
265 0261 1 node are to be returned.
266 0262 1 NML$GQ_ENTSTRDSC Descriptor for node name or number.
267 0263 1
268 0264 1 --
269 0265 1
270 0266 2 BEGIN
271 0267 2
272 P 0268 2 $NFBDS ( GET_KNOWN_LINKS, SHOW, NFB$M_MULT OR NFB$M_ERRUPD, LLI
273 P 0269 2 ,NFB$C_WILDCARD, ! Search key 1 = wildcard, oper1 = eql
274 P 0270 2 ,PID, NFB$C_OP_NEQ ! Search key 2 = NML's PID, oper2 = neq
275 P 0271 2 ,LLN ! Return link number
276 0272 2 );
277 0273 2
278 0274 2 MAP
279 0275 2 NODE_PST: REF BBLOCK,
280 0276 2 GET_KNOWN_LINKS : DESCRIPTOR;
281 0277 2
282 0278 2 OWN
283 0279 2 P2_BUFFER : BBLOCK [NML$K_P2BUFLN],
284 0280 2 P2DSC : DESCRIPTOR;
285 0281 2
286 0282 2 BIND
287 0283 2 P2_BUF_DSC = UPLIT ( NML$K_P2BUFLN, P2_BUFFER) : DESCRIPTOR;
288 0284 2
289 0285 2 LOCAL
290 0286 2 NFB : REF BBLOCK,
291 0287 2 SEARCH_KEY_LEN,
292 0288 2 SEARCH_KEY_VAL,
293 0289 2 P3,

```



```
294 0290 2 STATUS
295 0291 2 MSGSIZE;
296 0292 2
297 0293 2
298 0294 2 The first time this routine is called, GET_STARTED should be false.
299 0295 2 If so, build a P2 buffer with a search key with the node id, or
300 0296 2 a wildcard search key. The search key tells NETACP which links
301 0297 2 to return.
302 0298 2
303 0299 2 IF NOT .GET_STARTED THEN
304 0300 2 BEGIN
305 0301 2 NFB = .GET_KNOWN_LINKS [DSC$A_POINTER];
306 0302 2 IF .NML$GL_PRS_FCGS [NML$V_PRS_QUALIFIER] THEN
307 0303 2
308 0304 2 The NICE command was DISCONNECT KNOWN LINKS WITH
309 0305 2 NODE <node id>.
310 0306 2
311 0307 2 BEGIN
312 0308 2 SEARCH_KEY_LEN = .NODE_LEN;
313 0309 2 NFB [NFB$S_SRCH_KEY] = .NODE_PST [PST$S_NFBID];
314 0310 2 IF .SEARCH_KEY_LEN EQL 0 THEN
315 0311 2
316 0312 2 Set the search key up to be the node address.
317 0313 2
318 0314 2 BEGIN
319 0315 2 SEARCH_KEY_VAL = .(.NODE_ADR) <0,16>;
320 0316 2 IF .SEARCH_KEY_VAL EQL 0 THEN
321 0317 2 NML$GETEXEADR (SEARCH_KEY_VAL);
322 0318 2
323 0319 2 ELSE
324 0320 2
325 0321 2 Set the search key up to be the node name.
326 0322 2
327 0323 2 SEARCH_KEY_VAL = .NODE_ADR;
328 0324 2
329 0325 2 ELSE
330 0326 2
331 0327 2 The NICE command was a DISCONNECT KNOWN LINKS.
332 0328 2 Clear search key 1 and oper 1 in case a DISCONNECT
333 0329 2 KNOWN LINKS WITH NODE <node id> was done previously.
334 0330 2
335 0331 2 BEGIN
336 0332 2 NFB [NFB$S_SRCH_KEY] = 0;
337 0333 2 NFB [NFB$B_OPER] = 0;
338 0334 2 SEARCH_KEY_LEN = -1;
339 0335 2 SEARCH_KEY_VAL = 0;
340 0336 2 END;
341 0337 2 NML$BLDP2 (.SEARCH_KEY_LEN, .SEARCH_KEY_VAL, 0, .NMLPID,
342 0338 2 P2_BUF_DSC, P2DSC);
343 0339 2 END;
344 0340 2
345 0341 2 STATUS = NML$NETQIO ( GET_KNOWN_LINKS, P2DSC, P3, .LISDSC);
346 0342 2
347 0343 2 IF NOT .STATUS AND (.STATUS NEQ NML$STS_CMP) THEN
348 0344 2 BEGIN
349 0345 2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
350 0346 2 $SIGNAL_MSG (NML$AB_SNDBUFFER, .MSGSIZE);
```

```

: 351      0347 2      END;
: 352      0348 2
: 353      0349 2      .ENTRY_COUNT = .(P2DSC [DSC$A_POINTER]);
: 354      0350 2      RETURN .STATUS;
: 355      0351 2
: 356      0352 1 END;      ! of NML_GETLINKLIST

```

.PSECT \$SPLITS\$,NOWRT,NOEXE,2

```

0000001C 00010 P.AAC: .LONG 28
00000000 00014 .ADDRESS U.3
00000068 00018 P.AAD: .LONG 104
00000000 0001C .ADDRESS P2_BUFFER

```

.PSECT \$OWNS\$,NOEXE,2

```

22 000A8 : NFB
      U.3: .BYTE 34
03 000A9 .BYTE 3
08 000AA .BYTE 8
00 000AB .BYTE 0
00000001 000AC .LONG 1
08010015 000B0 .LONG 134283285
03 000B4 .BYTE 3
00 000B5 .BYTE 0
0000 000B6 .WORD 0
08010012 000B8 .LONG 134283282
00000000 000BC .LONG 0
      000C0 .BLKB 4
      000C4 P2_BUFFER:
      0012C P2DSC: .BLKB 104
      .BLKB 8

```

U.4= P.AAC
P2_BUF_DSC= P.AAD

.PSECT \$CODE\$,NOWRT,2

001C 00000 NML_GETLINKLIST:

```

54 00000000 00 9E 00002 .WORD Save R2,R3,R4      : 0234
53 00000000 00 9E 00009 MOVAB GET_KNOWN_LINKS+4, R4
5E          0C C2 00010 MOVAB P2DSC, R3
50          04 AC E8 00013 SUBL2 #12, SP
50          64 D0 00017 BLBS GET_STARTED, 4$      : 0299
24 00000000 00 02 E1 0001A MOVL GET_KNOWN_LINKS+4, NFB      : 0301
51          14 AC 7D 00022 BBC #2, NML$GC PRS_FLGS, 2$      : 0302
04 A0        0C A1 D0 00026 MOVQ NODE PST, R1      : 0309
      52 D5 0002B TSTL SEARCH_KEY_LEN      : 0310
      11 12 0002D BNEQ 1$
      6E 1C BC 3C 0002F MOVZWL @NODE_ADR, SEARCH_KEY_VAL      : 0315
      1C 12 00033 BNEQ 3$      : 0316
      5E DD 00035 PUSHL SP      : 0317
00000000G 00 01 FB 00037 CALLS #1, NML$GETEXEADR

```


NML\$DISCONNECT
V04-000

NML Disconnect parameter module
NML_GETLINKLIST Get a list of links to discon

M 8
16-Sep-1984 00:14:10
14-Sep-1984 12:50:08

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1

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(5)

			11	11	0003E	BRB	3\$		0310
	6E	1C	AC	D0	00040	1\$:	MOVL	NODE_ADR, SEARCH_KEY_VAL	0323
			0B	11	00044	BRB	3\$		0302
		04	A0	D4	00046	2\$:	CLRL	4(NFB)	0332
		03	A0	94	00049	CLRB	3(NFB)		0333
	52		01	CE	0004C	MNEGL	#1, SEARCH_KEY_LEN		0334
			6E	D4	0004F	CLRL	SEARCH_KEY_VAL		0335
			53	DD	00051	3\$:	PUSHL	R3	0337
		04	A4	9F	00053	PUSHAB	P2 BUF_DSC		
		10	AC	DD	00056	PUSHL	NM\$PID		
			7E	D4	00059	CLRL	-(SP)		
		10	AE	DD	0005B	PUSHL	SEARCH_KEY_VAL		
			52	DD	0005E	PUSHL	SEARCH_KEY_LEN		
00000000G	00		06	FB	00060	CALLS	#6, NM\$BLDP2		
		08	AC	DD	00067	4\$:	PUSHL	LI\$DSC	0341
		08	AE	9F	0006A	PUSHAB	P3		
			53	DD	0006D	PUSHL	R3		
		FC	A4	9F	0006F	PUSHAB	GET_KNOWN_LINKS		
00000000G	00		04	FB	00072	CALLS	#4, NM\$NETQIO		
	52		50	D0	00079	MOVL	R0, STATUS		
	2F		52	E8	0007C	BLBS	STATUS, 5\$		0343
FFFFFFFF0	8F		52	D1	0007F	CMPL	STATUS, #-16		
			26	13	00086	BEQL	5\$		
		08	AE	9F	00088	PUSHAB	MSGSIZE		0345
		00000000G	00	9F	0008B	PUSHAB	NM\$AB MSGBLOCK		
00000000G	00		02	FB	00091	CALLS	#2, NM\$BLD_REPLY		
		08	AE	DD	00098	PUSHL	MSGSIZE		0346
		00000000G	00	9F	0009B	PUSHAB	NM\$AB SNDBUFFER		
		01F90000	8F	DD	000A1	PUSHL	#3095880		
00000000G	00		03	FB	000A7	CALLS	#3, LIB\$SIGNAL		
	50	04	A3	D0	000AE	5\$:	MOVL	P2DSC+4, R0	0349
	0C		60	D0	000B2	MOVL	(R0), @ENTRY_COUNT		
	50		52	D0	000B6	MOVL	STATUS, R0		0350
			04	000B9		RET			0352

; Routine Size: 186 bytes, Routine Base: \$CODE\$ + 0117

```

358 0353 1 %SBTTL 'NML$DISCONNECT Disconnect single link'
359 0354 1 GLOBAL ROUTINE NML$DISCONNECT (ENTITY, LINK) : NOVALUE =
360 0355 1
361 0356 1 !++
362 0357 1 FUNCTIONAL DESCRIPTION:
363 0358 1
364 0359 1 This routine disconnects a single link with the specified node.
365 0360 1
366 0361 1 FORMAL PARAMETERS:
367 0362 1
368 0363 1 ENTITY NML$C_LINKS - Not used.
369 0364 1 LINK Word-sized link address.
370 0365 1
371 0366 1 IMPLICIT INPUTS:
372 0367 1
373 0368 1 NML$GQ_ENTSTRDSC Contains the node ID.
374 0369 1
375 0370 1 !--
376 0371 1
377 0372 2 BEGIN
378 0373 2
379 0374 2 MAP
380 0375 2 LINK : WORD;
381 0376 2
382 P 0377 2 $NFB$DSC ( DISC_LINK_NFB$DSC, DELETE, , LLI
383 P 0378 2 ,LLN, Search key one = link number, oper1 = eql
384 P 0379 2 ,NFB$C_WILDCARD, Search key two = wildcard, oper2 = eql
385 0380 2 );
386 0381 2
387 0382 2 LOCAL
388 0383 2 STATUS,
389 0384 2 P2DSC,
390 0385 2 MSGSIZE;
391 0386 2
392 0387 2 !
393 0388 2 Build the P2 buffer to tell NETACP which link to disconnect. Then,
394 0389 2 perform the disconnect.
395 0390 2 !
396 0391 2 NML$BLDP2 ( 0, .LINK, -1, 0, NML$Q_P2BFDSC, P2DSC);
397 0392 2 IF NML$NETQIO (DISC_LINK_NFB$DSC, P2DSC, 0, 0) THEN
398 0393 3 BEGIN
399 0394 3 NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
400 0395 3 NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
401 0396 2 END;
402 0397 2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
403 0398 2 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
404 0399 2
405 0400 1 END; ! of NML$DISCONNECT
```

.PSECT \$SPLITS,NOWRT,NOEXE,2

00000014 00020 P.AAE: .LONG 20
00000000 00024 .ADDRESS U.5

.PSECT \$OWNS,NOEXE,2

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	328	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS	40	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	559	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[NML.OBJ]NMLLIB.L32;1	341	43	12	27	00:00.1
\$255\$DUA28:[SHRLIB]NMLIBRY.L32;1	887	4	0	47	00:00.2
\$255\$DUA28:[SHRLIB]NET.L32;1	1279	12	0	63	00:00.3
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	6	0	581	00:03.3

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:NMLDISC/OBJ=OBJ\$:NMLDISC MSRC\$:NMLDISC/UPDATE=(ENH\$:NMLDISC)

Size: 559 code + 368 data bytes
Run Time: 00:15.5
Elapsed Time: 00:42.0
Lines/CPU Min: 1561
Lexemes/CPU-Min: 14822
Memory Used: 133 pages
Compilation Complete

0283 AH-BT13A-SE
VAX/VMS V4.0

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